

WHAT IS CLAIMED IS:

1. A system constructed by a base station and a plurality of terminals existing in a service zone which is formed by said base station, wherein said base station includes:

(a) wireless communicating means for communicating with said plurality of terminals in a wireless manner; and

(b) identification information allocating means for allocating base station identification information for specifying an arbitrary one of said plurality of terminals on the basis of a predetermined condition to said arbitrary terminal at a timing of forming a link with said arbitrary terminal.

2. A system according to claim 1, further

comprising reception notifying means for notifying of a reception to said arbitrary terminal by using said base station identification information allocated by said identification information allocating means.

3. A system according to claim 1, further

comprising registration notifying means for notifying said system of unique base station information for specifying a self base station and said base station identification information allocated to said arbitrary terminal by said identification information allocating

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means as information for specifying said arbitrary terminal in said system.

4. A system according to claim 1, further comprising managing means for managing a correlation between said arbitrary terminal and said base station identification information allocated to said arbitrary terminal.

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10 5. A system according to claim 1, further comprising:

link establishment request receiving means for receiving, from said arbitrary terminal, a link establishment request using at least any of unique terminal information for specifying said arbitrary terminal, base station identification information allocated from a base station other than a self base station to said arbitrary terminal, and unique base station information for specifying said another base station; and

link establishment processing means for executing a link establishing process with said arbitrary terminal on the basis of the reception information received by said link establishment request receiving means.

6. A system according to claim 5, further

comprising registration deletion request means for requesting said another base station to delete the registration of said base station identification information allocated from said another base station to
5 said arbitrary terminal.

7. A system according to claim 1, further comprising:

10 registration deletion request receiving means for receiving a registration deletion request of said base station identification information allocated by said identification information allocating means from said base station; and

15 registration deleting means for executing the registration deletion of said base station identification information on the basis of the registration deletion request received by said registration deletion request receiving means.

20 8. A system according to claim 7, wherein said registration deletion request receiving means uses the base station identification information whose registration was deleted by said registration deleting means as an object of allocatable base station
25 identification information.

9. A communicating method in a system constructed

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by a base station and a plurality of terminals existing in a service zone which is formed by said base station, comprising the steps of:

- 5 (a) forming a link for wireless communication with said plurality of terminals; and
 (b) allocating base station identification information for specifying an arbitrary terminal on the basis of a predetermined condition to said arbitrary terminal at a timing of forming said link.

10 10. A method according to claim 9, further comprising the step of notifying of a reception to said arbitrary terminal by using said base station identification information allocated to an arbitrary wireless terminal from said wireless base station in said identification information allocating step.

15 11. A method according to claim 9, further comprising the step of specifying said terminal for said system by using unique base station information for specifying said base station and said base station identification information.

20 12. A method according to claim 9, further comprising the step of temporarily storing a correlation between terminal information and said base station identification information and managing.

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13. A method according to claim 9, further comprising the step of:

when said terminal requests to form a link,
requesting a link establishment using an identifier of
5 said base station to an arbitrary wireless base station
to which said base station identification information
has been allocated in said identification information
allocating step, and requesting a link establishment
using unique terminal information for specifying said
10 arbitrary wireless terminal to a wireless base station
other than said arbitrary wireless base station.

14. A method according to claim 13, further comprising the step of requesting said another wireless
15 base station to delete the registration of said base
station identification information from said base
station through a wire communication path in the case
where the link between said terminal and said base
station has been established.

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15. A storage medium in which a processing program for embodying functions according to claim 9 has been stored in a computer-readable state.

25 16. A communication system comprising:

(a) a wireless control device, connected to a plurality of base stations, for controlling

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communication between said base stations;

- (b) a base station for forming each zone together with a plurality of terminals; and
5 (c) said terminal connected to each of said base stations,

wherein said base station allocates unique identification information to each of said terminals in a self zone at a predetermined timing and manages said identification information.

- 10 17. A system according to claim 16, wherein said base station notifies said wireless control device of said identification information and the information of said terminal corresponding to said identification information.

15 18. A system according to claim 16, wherein said wireless control device connects each of said base stations to an outside through various media.

- 20 19. A system according to claim 18, wherein said media is an ISDN network.

- 25 20. A system according to claim 18, wherein said media is an ATM network.

21. A system according to claim 18, wherein said media is an LAN.

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